

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 14. (Cancelled)

15. (New) An image-capturing apparatus comprising:

an image-capturing device that captures an image of a subject and outputs signals under first color coordinates comprising a plurality of color components;

a color coordinate conversion unit that converts the signals output from the image-capturing device into signals under second color coordinates comprising a luminance component and color difference components; and

a color difference signal correction unit that receives signals corresponding to the color difference components, and outputs corrected signals corresponding to the color difference components and a correction amount for a signal corresponding to the luminance component by using a two dimensional look-up table based upon the received signals corresponding to the color difference components.

16. (New) An image-capturing apparatus according to claim 15, wherein the color coordinate conversion device converts the signals under the first color coordinates into the signals under the second color coordinates by matrix calculation.

17. (New) An image-capturing apparatus according to claim 15, further comprising;

a luminance signal correction unit that corrects the signal corresponding to the luminance component with the correction amount and outputs a corrected signal corresponding to the luminance component;

a compression unit that compresses the corrected signal corresponding to the luminance component and the corrected signals corresponding to the color difference components to generate compressed image signals; and

a recording unit that records the compressed image signals.

18. (New) An image processing method for an image-capturing apparatus, the method comprising:

capturing an image of a subject with an image-capturing device;

outputting signals under first color coordinates comprising a plurality of color components from the image-capturing device;

converting the signals output from the image-capturing device into signals under second color coordinates comprising a luminance component and color difference components; and

outputting corrected signals corresponding to the color difference components and a correction amount for a signal corresponding to the luminance component by using a two dimensional look-up table based upon the converted signals corresponding to the color difference components.

19. (New) A computer-readable computer program product containing an image processing program stored on a recording medium for an image-capturing apparatus, the image processing program comprising instructions to:

capture an image of a subject with an image-capturing device;

output signals under first color coordinates comprising a plurality of color components from the image-capturing device;

convert the signals output from the image-capturing device into signals under second color coordinates comprising a luminance component and color difference components; and

output corrected signals corresponding to the color difference components and a correction amount for a signal corresponding to the luminance component by using a two dimensional look-up table based upon the converted signals corresponding to the color difference components.